

# **System and Method for Controlling Line Driver Power in a Shared Digital Subscriber Line Modem**

## **ABSTRACT**

A shared digital subscriber line modem achieves reduced total power consumption and data security by generating and transmitting a physical data frame which includes a control channel and a data field to only the connected client modem associated with the intended recipient. A second physical frame which does not include the data field is generated and transmitted to all of the other connected client modems. This method results in a reduction in the power required and provides improved data security by preventing data access to non-addressed client modems.